



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We make Indiana a cleaner, healthier place to live.*

Joseph E. Kernan  
Governor

Lori F. Kaplan  
Commissioner

October 8, 2003

100 North Senate Avenue  
P.O. Box 6015  
Indianapolis, Indiana 46206-6015  
(317) 232-8603  
(800) 451-6027  
[www.in.gov/idem](http://www.in.gov/idem)

TO: Interested Parties / Applicant

RE: LNP Engineering Plastics / 005-17886-00049

FROM: Paul Dubenetzky  
Chief, Permits Branch  
Office of Air Quality

## Notice of Decision: Approval - Registration

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 4-21.5-3-4(d) this order is effective when it is served. When served by U.S. mail, the order is effective three (3) calendar days from the mailing of this notice pursuant to IC 4-21.5-3-2(e).

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures  
FN-REGIS.dot 9/16/03

October 8, 2003

Mr. Christopher Miller  
LNP Engineering Plastics, Inc.  
945 South Marr Road  
Columbus, Indiana 47201

Re: Registered Operation Status,  
005-17886-00049

Dear Mr. Miller:

LNP Engineering Plastics, Inc., located at 945 South Marr Road, Columbus, Indiana, 47201 was issued Registration 005-17704-00049 on August 5, 2003 for a fiber filled plastic pellet manufacturing plant. A letter requesting corrections to typographical error was received on August 25, 2003. The typographical error has been corrected and pursuant to 326 IAC 2-5.5 the following emission units will be re-registered:

- (a) Four (4) long fiber filled extruded thermoplastic manufacturing lines, including:
  - (1) Line 71, constructed in 1994, having a maximum production rate of 1,000 pounds of product per hour, with emissions of particulate matter controlled using a dust collector.
  - (2) Line 72, constructed in 1995, having a maximum production rate of 1,000 pounds of product per hour, with emissions of particulate matter controlled using a dust collector.
  - (3) Line 73, constructed in 1998, having a maximum production rate of 2,000 pounds of product per hour, with emissions of particulate matter controlled using a dust collector.
  - (4) Line 74, constructed in 2000, having a maximum throughput of 1,700 pounds of product per hour, with emissions of particulate matter controlled using a dust collector.
- (b) Six (6) short fiber filled extruded thermoplastic manufacturing lines, including:
  - (1) Line 81, constructed in 1989, having a maximum production rate of 2,000 pounds of product per hour, emissions of particulate matter controlled using a dust collector.
  - (2) Line 82, constructed in 1989, having a maximum production rate of 2,000 pounds of product per hour, with emissions of particulate matter controlled using a dust collector.
  - (3) Line 84, constructed in 2002, having a maximum production rate of 200 pounds per hour, with emissions of particulate matter controlled using a dust collector.
  - (4) Line 90, constructed in January 2003, having a maximum production rate of 1,800 pounds per hour, with emissions of particulate matter controlled by a dust collector.
  - (5) Line 91, constructed in 1994, having a maximum production rate of 2,000 pounds per hour, with emissions of particulate matter controlled by a dust collector.

- (6) Line 92, constructed in 1999, having a maximum production rate of 3,000 pounds of product per hour, with emissions of particulate matter controlled by a dust collector.
- (c) Pneumatic conveyance systems used to transfer raw material, intermediates, and finished products between silos, storage bins and hoppers. The system uses a series of cyclones, filters and dust collectors, which collect the transferred material and prevent dust entering the vacuum pumps.
- (d) One (1) color pigment blending room, constructed in 2002, having a maximum production rate of 237 pounds per hour. Emissions of particulate matter are controlled using a dust collector.
- (e) One (1) molding room, constructed in 1994, consisting of two (2) molding units, identified as QC1 and QC2. Each molding unit has a maximum throughput of 1.5 pounds of product per hour.
- (f) One (1) research and development line, constructed in 1998, consisting of a feeder, hopper, extruder, die block, cooling bath, and pelletizer, with a maximum production capacity 300 pounds of product per hour. Emissions from these units are exhausted at stacks RD1 and RD2.
- (g) One (1) long-fiber product research and development lab constructed in January 2003.
- (h) Three (3) natural gas-fired pyrolysis cleaning ovens, identified as Units G1, F, and G2, constructed in 1994, 1997, and 1998 respectively, having a maximum heat input capacity of 0.37, 1.5, and 0.55 MMBtu per hour, respectively.
- (i) Natural gas-fired heaters and ovens having a combined heat input capacity of 31.35 MMBtu per hour.

The following conditions shall be applicable:

- (a) Pursuant to 326 IAC 5-1-2 (Opacity Limitations) except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following:
  - (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
  - (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of 15 minutes (60 readings) in a 6-hour period as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.
- (b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the long fiber filled extruded thermoplastic manufacturing lines (Lines 71, 72, 73, and 74), short fiber filled extruded thermoplastic manufacturing lines (Lines 81, 82, 84, 90, 91, and 92), color pigment blending room, pneumatic conveyance systems, and research and development line shall not exceed the pound per hour emission rates shown in the following table:

Process	Process Weight (lbs/hour)	Process Weight (tons/hour)	Particulate Limitation (lbs/hour)
Line 71 (including associated pneumatic conveyance system)	1,000	0.5	2.6
Line 72 (including associated pneumatic conveyance system)	1,000	0.5	2.6
Line 73 (including associated pneumatic conveyance system)	2,000	1.0	4.1
Line 74 (including associated pneumatic conveyance system)	1,700	0.85	3.7
Line 81 (including associated pneumatic conveyance system)	2,000	1.0	4.1
Line 82 (including associated pneumatic conveyance system)	2,000	1.0	4.1
Line 84 (including associated pneumatic conveyance system)	200	0.10	0.88
Line 90 (including associated pneumatic conveyance system)	1,800	0.9	3.8
Line 91 (including associated pneumatic conveyance system)	2,000	1.0	4.1
Line 92 (including associated pneumatic conveyance system)	3,000	1.5	5.4
Color Pigment Blending Room	237	0.12	0.99
Research and Development Line	300	0.15	1.2

The particulate emission limits were calculated as follows:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

- (c) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from molders QC-1 and QC-2, which each have maximum process weight rates less than 100 pounds per hour, shall not exceed 0.551 pounds per hour.
- (d) Pursuant to 326 IAC 4-2, the pyrolysis cleaning ovens (identified as units F, G1 and G2) shall:
  - (1) Consist of primary and secondary chambers or the equivalent;
  - (2) Be equipped with a primary burner unless burning wood products;
  - (3) Comply with 326 IAC 5-1 and 326 IAC 2;

- (4) Be maintained, operated, and burn waste in accordance with the manufacturer's specifications or an operation and maintenance plan as specified in 326 IAC 4-2-2; and
- (5) Not emit particulate matter in excess of five-tenths (0.5) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions corrected to fifty percent (50%) excess air.
- (6) If any of the requirements of (d)(1) through (d)(5) above are not met, the Permittee shall stop charging the incinerator until adjustments are made that address the underlying cause of the deviation.

The owner or operator of the incinerator must make the manufacturer's specifications or the operation and maintenance plan available to the department upon request.

This registration is a revised registration issued to this source. The source may operate according to 326 IAC 2-5.5.

An authorized individual shall provide an annual notice to the Office of Air Quality that the source is in operation and in compliance with this registration pursuant to 326 IAC 2-5.5-4(a)(3). The annual notice shall be submitted to:

**Compliance Branch  
Office of Air Quality  
100 North Senate Avenue  
P.O. Box 6015  
Indianapolis, IN 46206-6015**

no later than March 1 of each year, with the annual notice being submitted in the format attached.

An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

Sincerely,

Original signed by Paul Dubenetzky  
Paul Dubenetzky, Chief  
Permits Branch  
Office of Air Quality

APD

cc: File - Bartholomew County  
Air Compliance - Vaughn Ison  
Permit Tracking - Sara Cloe  
Technical Support and Modeling - Michele Boner  
Compliance Branch - Karen Nowak

## Registration

This form should be used to comply with the notification requirements under 326 IAC 2-5.5-4(a)(3)

<b>Company Name:</b>	<b>LNP Engineering Plastics, Inc.</b>
<b>Address:</b>	<b>945 S. Marr Road</b>
<b>City:</b>	<b>Columbus, Indiana 47201</b>
<b>Authorized individual:</b>	<b>Mr. Christopher Miller</b>
<b>Phone #:</b>	<b>812-348-0229</b>
<b>Registration #:</b>	<b>005-17886-00049</b>

I hereby certify that LNP Engineering Plastics, Inc. is still in operation and is in compliance with the requirements of Registration 005-17886-00049.

<b>Name (typed):</b>
<b>Title:</b>
<b>Signature:</b>
<b>Date:</b>

## Indiana Department of Environmental Management Office of Air Quality

### Technical Support Document (TSD) for a re-Registration

#### Source Background and Description

**Source Name:** LNP Engineering Plastics, Inc.  
**Source Location:** 945 South Marr Road, Columbus, Indiana 47201  
**County:** Bartholomew  
**SIC Code:** 3087  
**Registration No.:** 005-17886-00049  
**Permit Reviewer:** Aida De Guzman

The Office of Air Quality (OAQ) has reviewed an application from LNP Engineering Plastics, Inc. relating to a re-registration of the fiber filled plastic pellets manufacturing plant. A letter requesting corrections to typographical error was received on August 25, 2003. Registration 005-17704-00049, issued on August 5, 2003 will be revised to correct the following typographical error (additions are **bolded** and deletions are ~~struck through~~ for emphasis):

- (1) Item (b)(3) of the registration will be revised to read as follows:
  - (b)(3) Line 84, constructed in ~~2000~~ **2002**, having a maximum production rate of 200 pounds per hour, with emissions of particulate matter controlled using a dust collector.
- (2) Item (h) of the registration will be revised to read as follows:
  - (h) Three (3) natural gas-fired pyrolysis cleaning ovens, { identified as Units G1, **F**, and G2}, constructed in 1994, 1997, and 1998 respectively, having a maximum heat input capacity of 0.37, 1.5, and 0.55 MMBtu per hour, respectively.

#### Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) Exemption issued September 2, 1989;
- (b) Exemption 005-2670-00049, issued April 13, 1993;
- (c) Registration 005-3552-00049, issued March 30, 1994;
- (d) Exemption 005-3823-00049, issued August 3, 1994;
- (e) Registration 005-5009-00049, issued December 7, 1995;

- (f) Exemption 005-8274-00049, issued April 7, 1997;
- (g) Registration 005-9519-00049, issued April 24, 1998;
- (h) Exemption 005-9838-00049, issued July 23, 1998;
- (i) Registration 005-15779-00049, issued July 3, 2003; and
- (j) Registration 005-17704-00049, issued on August 5, 2003.

All applicable requirements determined in Registration 005-17704-00049 will stay the same.

### **Conclusion**

The operation of this fiber filled plastic pellets manufacturing plant shall be subject to the conditions of the attached **Registration No.: 005-17886-00049.**